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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,896	03/31/2004	Kazuhiko Ikeda	H0402T	5005

7590 10/05/2005

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EXAMINER

LE, THANH TAM T

ART UNIT	PAPER NUMBER
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2839

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/812,896

Applicant(s)

IKEDA, KAZUHIKO

Examiner

Thanh-Tam T. Le

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 July 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's submitted Prior Art (APA) in view of Purdy (6,106,333).

Regarding claims 1, 5, 7 and 9, APA, figures 16-19, discloses a coaxial connector comprising:

- a terminal (2) having a first end side (8) to be connected to a mating connector (27) to be provided on a board (not shown) and a second end side (6) connected a central conductor (25) of a coaxial cable (24);
- an insulating member (3) provide outside the terminal and holding the terminal; and
- an outer conductor (4) provided outside the insulating member and extending only in a longitudinal direction along the coaxial cable, wherein when the coaxial connector is pushed into the mating connector for plugging in a direction perpendicular to the coaxial cable, the terminal is held between a mating terminal (28) of the mating connector.

APA discloses the claimed invention as described above except for a

connection angle between the terminals of the coaxial connector and mating connector is made an obtuse angle.

Purdy, figure 4, discloses a connector (90) comprising a conductor (92) has a shape of an obtuse angle. It would have been obvious of ordinary skill in the art to modify APA's mating terminal with the shape of the conductor, as taught by Purdy, for easier connection.

Regarding claims 2 and 6, it is noted that Purdy, figure 4, discloses the mating terminal having a slanted portion (94) on a first end side.

Regarding claim 3, APA, figure 16, discloses an aperture (not labeled) provided in front of the first end side of the terminal.

Regarding claim 4, APA, figures 16 and 17, discloses the outer conductor having engagement portion (15) for engaging a connection condition with the mating connector and a fixed portion (16) for fixing the coaxial cable, the engagement and fixed portions being disposed at substantially same positions in the longitudinal direction along the coaxial connector.

3. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Purdy (6,106,333).

Purdy, figures 1 and 2, discloses a coaxial connector comprising:

- a terminal (34) having a wiring portion (36) connected to a central conductor of a coaxial cable and a connection portion (48) connected to a mating connector;

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- an insulating member (52) provided outside the terminal and having a terminal holding portion (56) for holding the terminal; and
- an outer conductor (22) provided the outside the insulating member.

Purdy discloses the instant claimed invention as described above except for the wiring portion and the terminal holding portion have shapes of a dovetail groove.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Purdy to have the wiring portion and the terminal holding portion have shapes of a dovetail groove, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. In re Rose, 105 USPQ 237 (CCPA 1955) for better holding and have more security between the wiring portion and the holding portion.

Response to Arguments

4. Applicant's arguments with respect to claims 1-7 and 9 have been considered but are moot in view of the new ground(s) of rejection.

Regarding claim 8, since the wiring portion and the terminal holding portion of Purdy have a shape, but not a dovetail shape, therefore, the case law of change in size to change to component and the structure of the wiring and the holding portions, in order to have more security between the wiring and holding portions when they connect to each other.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

6. A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Tam T. Le whose telephone number is 571-272-2094. The examiner can normally be reached on 7:30-5:00.

8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TC Patel can be reached on 571-272-2098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Thanh-Tam T. Le
Primary Examiner
Art Unit 2839

TL.
10/02/05.